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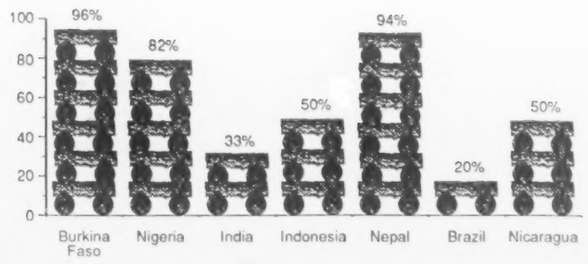
World Environment Data Sheet



Source: Worldwatch Institute, *State of the World 1988.*

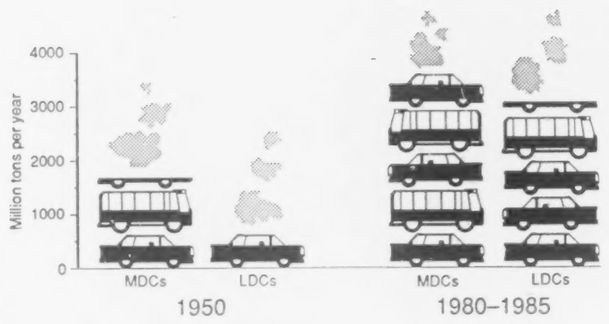
Share of Energy Use Provided by Wood Selected Countries: 1980s

Many people in less developed countries (LDCs) depend on wood as their primary energy source. Over two-thirds of all people in LDCs rely on wood for cooking and heating. Those living in rural areas, particulary in Africa, may depend on wood for as much as 90 percent of their energy needs.

Carbon Emissions in More Developed and Less Developed Countries: 1950 and 1980-1985 (million tons per year)

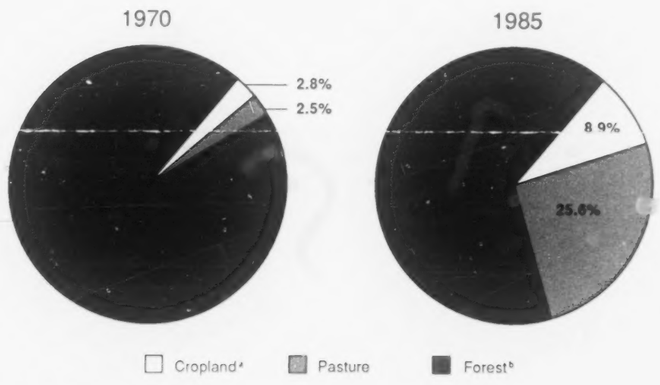
Carbon is produced from the burning of fossil fuels and the burning of forests. Each ton of carbon emitted into the atmosphere results in 3.2 tons of carbon dioxide. Carbon dioxide is responsible for about half of global warming.

As world population grows, the amount of carbon released into the air increases. Because most of future population growth is projected to occur in less developed countries (LDCs), they will produce more of the carbon dioxide emissions in the future. By 2020, LDCs are projected to account for half of all carbon dioxide emissions.



MDCs = More developed countries
LDCs = Less developed countries

Source: World Resources Institute.



a—includes fallow land
b—includes natural pastures

Source: The World Bank, *Government Policies and Deforestation in Brazil's Amazon Region*, 1989.

Agricultural Land Use in Rondônia, Brazil: 1970-1985

As world population grows and the demand for food and other consumer products rises, the amount of land converted for human use increases. More land in developing countries is being converted to cropland and pasture each year. Rondônia, a state in the Brazilian Amazon, is an example of an area where millions of acres of virgin forest are being cleared to provide cropland and grazing land.

Definitions and Notes:

Mid-1990 Population. Estimates are based on a recent census or official national data or on United Nations, U.S. Bureau of the Census or World Bank projections.

Per Capita Calorie Supply. Daily calorie requirement refers to the calories needed to sustain a person at normal levels of activity and health, taking into account age and sex distributions, average body weights and environmental temperatures. Estimates from the U.N. Food and Agriculture Organization.

Years to Halve Forest Cover. The number of years in which half of the forested area would be lost assuming that the current rate of deforestation were to continue unchanged. Data from the World Resources Institute.

Commercial Energy Consumption. Includes energy from solids, liquids, gases and primary electricity. Data from the World Resources Institute.

Electric Energy from Fossil Fuels. Data from the World Resources Institute.

Access to Safe Water and Sanitation Services. Proportion of persons with reasonable access to safe drinking water, which includes treated surface water and untreated, but uncontaminated, water from protected springs, boreholes and wells. Sanitation services are defined as those served by connections to public sewers or household disposal systems. Estimates from the U.N. Environment Programme and the World Health Organization.

Gross Domestic Product (GDP) from Sources Other than Agriculture. The GDP measures the total output of goods and services for final use by residents. This figure shows only the total output of goods and services from industry, manufacturing and services. The proportion of the GDP derived from sources other than agriculture is an indicator of a country's level of development. Data from the World Bank.

Motor Vehicles per 1,000 Population. Data from the U. N. Environment Programme *Environmental Data Report 1989/90* and from the Europa Yearbook series.

A (z) indicates that a statistic rounds to zero.
A dash (—) indicates data or estimate not available.

PRB

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This data sheet is part of the **CONNECTIONS** teaching package. The **CONNECTIONS** teaching kit was developed to help students make the links between population and the environment in the context of sustainable development. The ultimate goal of the project is to develop students' concern for the environment, a sense of responsibility for its protection, awareness of the links between population and the environment and the realization that they live in a "global village."

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Region or Country	Population Estimate mid-1990 (millions)	Population Change 1955-1990/ 1990-2025 (percent)	Per Capita Calorie Supply as Percent of Requirements	Years to Halve Forest Cover	Per Capita Commercial Energy Consumption, 1987 (UN standard barrels of oil)	Electric Energy from Fossil Fuel, 1987 (percent)	Access to Safe Water/Sanitation Services, 1985 (percent)	GDP from Sources Other than Agriculture, 1988 (percent)	Motor Vehicles per 1,000 Population 1970s/1980s
WORLD	**5,321**	**92/60**	—	—	**9.2**	**64**	**54/33**	—	—/—
AFRICA	**661**	**159/144**	—	**139**	**2.0**	**81**	**37/28**	—	—/—
Algeria	26	161/99	115	30	6.9	98	68/57	87	32/42
Angola	9	126/147	82	347	0.5	26	33/19	—	—/10
Botswana	1	197/162	93	693	—	—	53/—	97	22/36
Burkina Faso	9	120/152	85	41	0.2	100	67/9	61	4/—
Cameroon	11	126/133	88	173	1.3	3	32/43	74	—/11
Cape Verde	0.4	120/134	100	—	—	100	52/10	—	—/12
Chad	5	100/133	59	116	0.2	100	—/—	53	4/—
Côte d'Ivoire	13	291/216	112	13	1.0	41	—/—	64	17/—
Egypt	55	135/74	126	—	3.3	82	—/—	79	—/23
Ethiopia	52	116/140	84	231	0.2	20	16/—	57	1/1
Gabon	1	145/150	102	693	5.6	23	—/—	89	—/22
Gambia	1	174/116	95	29	0.7	100	59/—	—	—/8
Ghana	15	161/147	66	87	0.7	2	56/30	50	1/6
Guinea	7	101/128	84	87	0.3	67	18/—	70	41/36
Guinea-Bissau	1	90/119	82	26	0.3	100	21/21	—	8/—
Kenya	25	250/209	83	41	0.5	14	—/—	69	12/—
Lesotho	2	123/141	104	—	—	—	36/15	80	8/—
Madagascar	12	154/175	112	58	0.2	46	31/—	59	—/4
Malawi	9	166/171	95	20	0.2	2	56/—	62	5/5
Mali	8	123/158	68	139	0.2	21	16/19	51	3/—
Mauritania	2	125/145	92	29	3.8	79	—/—	62	—/10
Morocco	26	148/76	105	173	1.6	91	59/—	83	28/36
Mozambique	16	132/119	71	87	0.2	88	15/20	38	13/8
Niger	8	135/166	97	27	0.3	100	47/—	64	5/—
Nigeria	119	205/167	86	26	0.8	78	38/—	65	3/—
Rwanda	7	202/150	98	30	0.2	2	50/56	62	1/—
Senegal	7	168/122	82	139	0.7	100	53/—	78	19/15
Sierra Leone	4	99/132	91	231	0.3	100	24/24	54	9/—
South Africa	40	129/79	118	—	13.6	96	—/—	94	128/154
Sudan	25	148/137	90	347	0.3	51	—/—	67	8/9
Tanzania	26	210/210	98	231	0.2	30	53/—	34	3/—
Tunisia	8	112/63	121	41	3.1	98	70/55	86	32/57
Uganda	18	232/199	101	87	0.2	2	20/30	27	2/3
Zaire	37	156/176	96	347	0.3	3	32/—	69	7/—
Zambia	8	207/201	83	231	1.1	z	58/55	86	23/21
Zimbabwe	10	198/133	82	173	3.4	67	—/—	89	—/39
ASIA	**3,116**	**106/57**	—	—	**3.4**	**69**	—/—	—	—/—
Afghanistan	16	70/148	95	—	0.7	39	17/—	—	4/—
Bangladesh	115	154/103	84	77	0.3	91	46/5	54	—/1
Bhutan	2	90/103	90	693	0.2	62	—/—	56	—/3
China	1,120	86/31	111	—	3.6	80	—/—	67	21/—
Cyprus	1	32/29	137	—	11.8	100	100/100	—	18/34
Hong Kong	6	135/19	117	—	—	—	—/—	99	41/53
India	853	116/69	96	231	1.3	71	56/9	68	2/—
Indonesia	189	109/46	110	139	1.3	78	38/37	76	—/13
Iran	56	232/116	128	139	6.2	83	—/—	—	54/71
Iraq	19	220/164	121	—	3.6	97	86/74	—	19/46
Israel	5	162/51	121	—	13.4	100	—/—	—	114/—
Japan	124	37/4	113	—	18.0	61	—/—	98	280/408
Korea, North	21	152/73	127	—	12.9	42	—/—	—	7/39
Korea, South	43	103/25	118	—	8.5	44	75/100	89	—/60
Kuwait	2	950/108	—	—	44.0	100	—/—	99	290/—
Malaysia	18	148/61	111	58	6.2	72	84/75	—	58/111
Myanmar	41	113/74	116	231	0.3	51	27/24	—	—/—
Nepal	19	121/83	93	17	0.2	5	28/—	44	2/—
Pakistan	115	178/118	95	173	1.1	53	44/19	73	2/3
Philippines	66	161/78	104	69	1.3	59	52/67	78	—/16
Saudi Arabia	15	293/217	134	—	30.2	100	94/82	93	72/388
Sri Lanka	17	97/42	104	20	0.7	20	40/44	74	11/—
Syria	13	215/158	127	—	4.9	79	—/—	62	23/28
Thailand	56	145/45	105	29	2.3	86	64/52	83	16/28
Turkey	57	133/61	123	—	4.7	58	—/—	82	21/34
Viet Nam	70	110/76	99	116	0.5	62	45/—	—	—/—
Yemen	10	122/183	94	—	1.8	100	43/—	—	—/34
NORTH AMERICA	**278**	**52/21**	—	—	**45.9**	**65**	—/—	—	—/—
Canada	27	69/21	130	—	47.5	21	—/—	96	515/581
United States	251	50/21	137	—	45.8	73	—/—	98	649/728
LATIN AMERICA	**447**	**136/70**	—	—	—	**39**	—/—	—	—/—
Argentina	32	71/41	119	20	9.2	46	56/69	88	145/172
Bolivia	7	138/150	82	347	1.5	26	43/21	76	—/38
Brazil	150	140/63	106	139	3.6	8	77/63	91	67/—
Chile	13	94/50	105	99	4.6	22	87/84	—	45/75
Colombia	32	138/63	110	41	3.9	28	—/—	81	25/43
Cuba	11	61/16	126	693	6.9	100	—/—	—	—/37
Dominican Republic	7	162/60	105	116	2.0	82	62/23	77	23/27
Ecuador	11	183/112	89	30	2.9	19	57/65	85	—/30
Guatemala	9	168/136	95	35	0.8	62	37/24	—	—/34
Haiti	7	94/77	83	18	0.2	29	38/21	69	7/10
Mexico	89	173/69	126	53	8.2	78	83/58	91	—/97
Nicaragua	4	203/138	102	26	1.5	47	48/27	81	25/23
Paraguay	4	176/115	122	—	1.3	z	28/85	71	—/31
Peru	22	158/84	85	173	2.8	22	55/49	87	—/31
Puerto Rico	3	65/40	—	—	—	—	—/—	—	—/443
Uruguay	3	32/24	99	—	3.1	7	85/59	89	—/112
Venezuela	20	221/93	99	99	14.4	56	89/50	94	—/228
EUROPE	**501**	**22**	3/—	—	**21.2**	**54**	—/—	—	—/—
Albania	3	134/54	—	—	6.2	13	—/—	—	—/—
Czechoslovakia	16	20/10	145	—	30.2	68	—/—	—	134/—
France	56	29/8	138	—	17.8	10	—/—	96	361/468
Germany	80	10/–9	132	—	29.2	69	—/—	—	355/471
Italy	58	18/–4	140	—	17.2	78	—/—	96	312/449
Netherlands	15	37/2	129	—	34.8	95	—/—	95	304/380
Poland	38	41/17	127	—	23.0	97	—/—	—	61/137
Spain	39	35/8	132	—	10.1	48	—/—	94	194/311
Sweden	9	15/–2	117	—	24.0	5	—/—	97	368/431
Switzerland	7	31/–6	129	—	18.1	2	—/—	—	331/454
United Kingdom	57	11/1	128	—	24.5	80	—/—	98	293/373
Yugoslavia	24	36/10	141	—	11.6	58	—/—	—	88/137
USSR	**291**	**47/22**	**132**	—	**31.7**	**76**	—/—	—	—/—
OCEANIA	**27**	**87/47**	—	—	**24.0**	**78**	—/—	—	—/—
Australia	17	81/35	115	—	32.8	89	—/—	96	470/575
New Zealand	3	58/20	132	—	18.5	23	—/—	90	471/608
	Pop. 1990	*% pop. change*	*% calories*	*Forest halving*	*Energy*	*% elec. energy*	*% water/sanitation*	*% non-ag. GDP*	*Vehicles*